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L2	154	ATM same SONET same FDDI	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/24 13:08
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L6	28	2 and (capacity and planning)	USPAT	OR	OFF	2005/01/24 13:13
L7	25	FDDI.ti.	USPAT	OR	OFF	2005/01/24 13:22
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Term used **Lowekamp**

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Relevance scale

1 Special section on grid computing: Combining active and passive network measurements to build scalable monitoring systems on the grid

Bruce B. Lowekamp

March 2003 **ACM SIGMETRICS Performance Evaluation Review**, Volume 30 Issue 4

Full text available: pdf(775.34 KB) Additional Information: full citation, abstract, references

Because the network provides the wires that connect a grid, understanding the performance provided by a network is crucial to achieving satisfactory performance from many grid applications. Monitoring the network to predict its performance for applications is an effective solution, but the costs and scalability challenges of actively injecting measurement traffic, as well as the information access and accuracy challenges of using passively collected measurements, complicate the problem of develo ...

2 Session 5: A structured group mobility model for the simulation of mobile ad hoc networks

Ken Blakely, Bruce Lowekamp

October 2004 **Proceedings of the second international workshop on Mobility management & wireless access protocols**

Full text available: pdf(155.11 KB) Additional Information: full citation, abstract, references, index terms

Realistic models for node movement are essential in simulating mobile ad hoc networks. Many MANET scenarios are most realistically represented using group movement, but existing group movement models depict individual group members as independent actors moving randomly. For many scenarios however, group movement implies a common goal or orientation, and hence an inherent structure to the group. We show that this structure can be defined a-priori, and that knowledge of it will result in more accu ...

Keywords: group mobility, mobility models

3 Exploring Surface Characteristics with Interactive Gaussian Images (A Case Study)

Bradley Lowekamp, Penny Rheingans, Terry S. Yoo

October 2002 **Proceedings of the conference on Visualization '02**

Full text available: Publisher Site Additional Information: full citation, abstract

The Gauss map projects surface normals to a unit sphere, providinga powerful visualization of the geometry of a graphical object. Itcan be used to predict visual events caused by changes in lighting,shading, and camera control. We present an interactive techniquefor portraying the Gauss map of polygonal models, mapping surfacenormals and the magnitudes of surface curvature using a sphericalprojection. Unlike other visualizations of surface curvature,we create our Gauss map directly from polygona ...

Keywords: Computational Geometry, Gauss map, Illumination and shading, Interactive visualization

4 Session C5: interactive techniques: Exploring surface characteristics with interactive Gaussian images: a case study

Bradley Lowekamp, Penny Rheingans, Terry S. Yoo

October 2002 **Proceedings of the conference on Visualization '02**

Full text available: pdf(690.43 KB) Additional Information: full citation, abstract, references, index terms

The Gauss map projects surface normals to a unit sphere, providing a powerful visualization of the geometry of a graphical object. It can be used to predict visual events caused by changes in lighting, shading, and camera control. We present an interactive technique for portraying the Gauss map of polygonal models, mapping surface normals and the magnitudes of surface curvature using a spherical projection. Unlike other visualizations of surface curvature, we create our Gauss map directly from p ...

Keywords: computational geometry, gauss map, illumination and shading, interactive visualization

5 Topology discovery for large ethernet networks

Bruce Lowekamp, David O'Hallaron, Thomas Gross

August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 31 Issue 4

Full text available: pdf(144.05 KB) Additional Information: full citation, references, citings, index terms

6 Automatic node selection for high performance applications on networks

Jaspal Subhlok, Peter Lieu, Bruce Lowekamp

May 1999 **ACM SIGPLAN Notices , Proceedings of the seventh ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 34 Issue 8

Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, references, citings, index terms

A central problem in executing performance critical parallel and distributed applications on shared networks is the selection of computation nodes and communication paths for execution. Automatic selection of nodes is complex as the best choice depends on the application structure as well as the expected availability of computation and communication resources. This paper presents a solution to this problem for realistic application and network scenarios. A new algorithm to jointly analyze comput ...

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Terms used **FDDI SONET**

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Relevance scale

1 A VLSI decoder for a new type of constellations adapted to the Rayleigh Fading Channel

Emmanuel Boutillon, Jose Maria Uruñuela-Martinez

January 1998 **Wireless Networks**, Volume 4 Issue 1

Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, index terms

Diversity is the key solution to obtain efficient channel coding in wireless communications, where the signal is subject to fading (Rayleigh Fading Channel). For high spectral efficiency, the best solutions used nowadays are based on QAM constellations of 1-order diversity, associated with a binary code or a trellis coded modulation to increase the overall diversity. It has been shown that a new class of d-dimensional non-QAM constellations, named \pi-constellations, can bring a d-order div ...

2 Topology discovery in heterogeneous IP networks: the *NetInventory* system

Yuri Breitbart, Minos Garofalakis, Ben Jai, Cliff Martin, Rajeev Rastogi, Avi Silberschatz

June 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 3

Full text available: pdf(435.97 KB) Additional Information: full citation, abstract, references, index terms

Knowledge of the up-to-date physical topology of an IP network is crucial to a number of critical network management tasks, including reactive and proactive resource management, event correlation, and root-cause analysis. Given the dynamic nature of today's IP networks, keeping track of topology information manually is a daunting (if not impossible) task. Thus, effective algorithms for automatically discovering physical network topology are necessary. Earlier work has typically concentrated on e ...

Keywords: IP network management, SNMP MIBs, physical network topology, switched Ethernet

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